STEEL DESIGN AND DETAILING CHECKLIST

Name of Project:	Input data	Originator:	Input name and initials	Date:	
Name of Structure:	Input data	Checker:	Input name and initials	Date:	
Structure Number:	Input data				
Project Number:	Input data				
PIN:	Input data				

TITLE BLOCK	Provided (Originator)			Chk	Comments
	Yes	No	NA		
Complete all information required in the standard title. • Top line = project name • Second line = structure name • Third line = sheet name					
Complete the title block.					
Fill in initials, dates, and signatures.					

DESIGN	Provided (Originator)			Chk	Comments
	Yes	No	NA		
Meet the requirements of AASHTO LRFD and the UDOT Structures Design and Detailing Manual(SDDM) and as shown on the Framing plan Design Sheet, DD-7, and the Steel Girder Design Sheets, DD-13A, DD-13B and DD-13C.					
Verify the material strengths used in design match the design data listed on the S&L sheets.					
Base the design of cross frames for curved girders and bridges skewed more than 30 degrees on results from a FEM model or grillage model.					
Verify that the splice locations do not interfere with the stiffeners or cross frames.					

WELDED STEEL PLATE GIRDER DETAILS 1 OF X	Provided (Originator)			Chk	Comments
	Yes	No	NA		
Use the working standard sheet WS-12.					
Update the sheet at the locations indicated by blue boxes and at locations requiring welds larger than the minimum.					

FIELD SPLICE DETAIL	Provided (Originator)			Chk	Comments
	Yes	No	NA		
Provide details for the field splices. Refer to SS-20 for required information.					
Combine field splice details with other steel details or present the details on a single sheet as shown in SS-20.					

CROSS FRAME DETAILS AND GRAFFITTI COVER	Provided (Originator)			Chk	Comments
	Yes	No	NA		
Provide details for the crossframes and graffiti cover. Refer to SS-19 for required information.					
Refer to DD-13C for typical crossframes.					
Combine crossframe and graffiti cover details with other steel details or present the details on a single sheet as shown in SS-19.					

GIRDER ELEVATION	Provided (Originator)			Chk	Comments
	Yes	No	NA		
Provide a girder elevation sheet. Refer to SS-18 for required information.					
Define all elements of the girder. Include the following information and any additional information required to define the girder. • Out to out of girder • Centerline of bearing abutment to centerline of bearing abutment • Centerline of bearing to centerline of bearing for each span • Centerline of field splice • All plate sizes and lengths • All stiffener sizes • Intermediate stiffener spacing if the spacing is not defined on the framing plan • Dimension tension zones from the centerline of bearings • Identify members requiring CVN testing • Identify FCM members • Define the shear stud spacing					
Typical title: **GIRDER ELEVATION**					

GIRDER CAMBER	Provided (Originator)			Chk	Comments
	Yes	No	NA		
Provide a girder camber diagram and table of deflections on the girder elevation sheet. Refer to SS-18 for required information.					
Add additional lines or additional tables as needed to define each girders camber.					
List the FWS deflection for an interior girder.					

NOTES AND QUANTITIES	Provided (Originator)			Chk	Comments
	Yes	No	NA		
Place the notes above the quantities table.					
Use the format of the notes provided in the sample sheets and design sheets. Modify the note requirements as needed to match the girder design.					
Reference related sheets as needed.					
Place a quantities table on the lower right hand side of the girder elevation sheet. List the girder structural steel quantities. Provide a quantity of each grade of steel. Include miscellaneous steel quantities (crossframes, bearings, etc) in this table or add quantity tables on the sheets detailing the miscellaneous items. Add other quantities as necessary.					